



SCC Standards Guidance



Richard Walker
(703)735-3310 DSN 653-3310
Walkerr@NCR.DISA.MIL



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SCC Mission

As a panel of the Military Communications-Electronics Board (MCEB), 3 of the 8 core SCC objectives are as follows:

- 1. Provide a single DOD focal point to coordinate all DOD IT Standards activities and manage the overall DOD IT Standards process.**
- 2. Promote and integrate DOD participation in the non-government standards development process to produce IT Standards suitable for implementation in DOD Systems.**
- 3. Promote and integrate DOD standardization activities with non-DOD (e.g., federal, national, and international) standardization activities.**

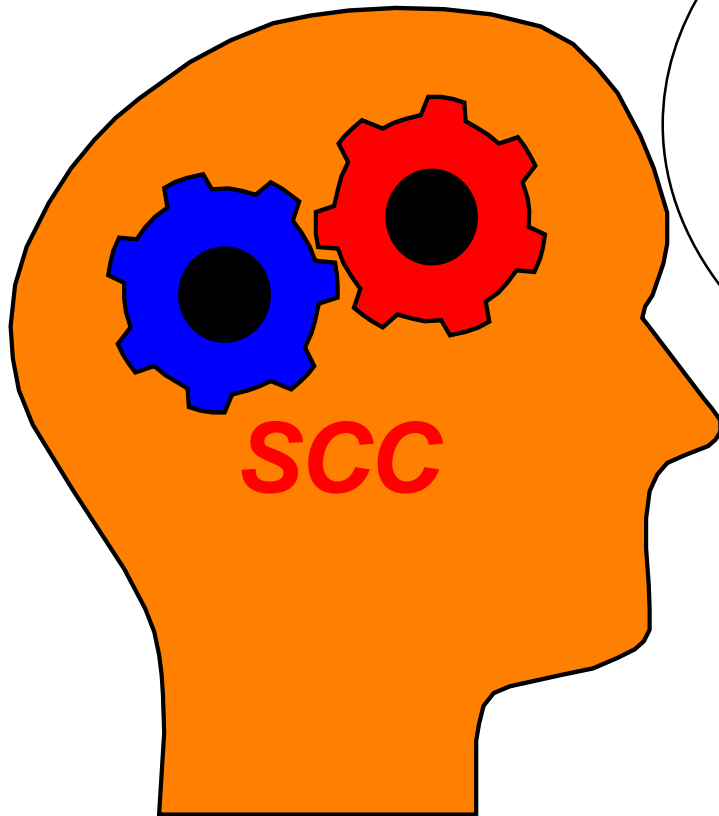


SCC Mission (cont)

The SCC supports the Center for Information Technology Standards (CFITS) in its role as the Executive agent for IT Standards. Support is provided by carrying out their (CFITS's) duties to: ***Lead, Manage, Integrate and Coordinate***, efforts to develop and implement IT Standards in DOD information Systems.



The Probing Question....



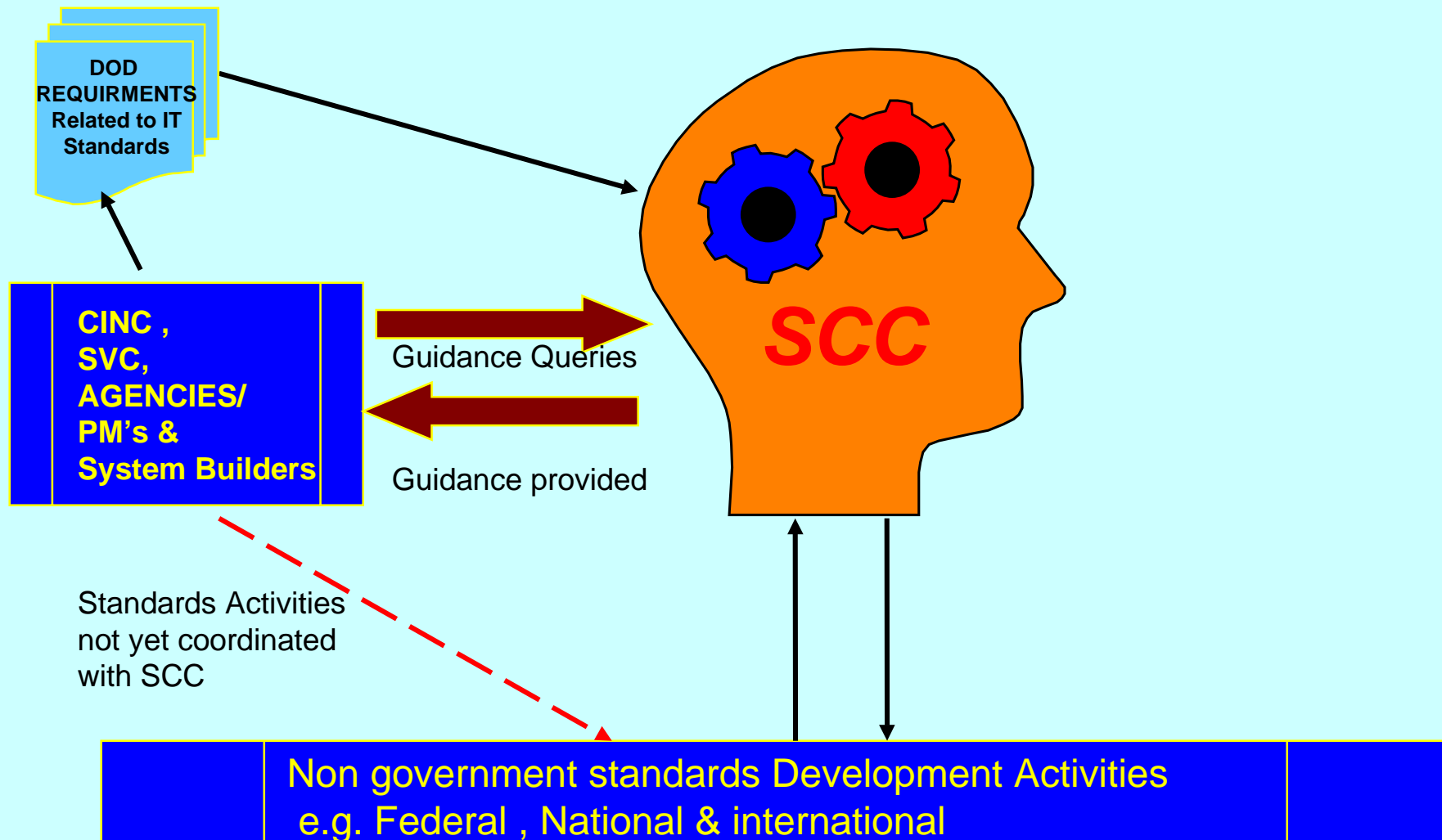
**Lead, Manage, Integrate
and Coordinate efforts to develop and
implement IT Standards in DOD
Information Systems.**

How??

**What appropriate
methodology do I use ?**

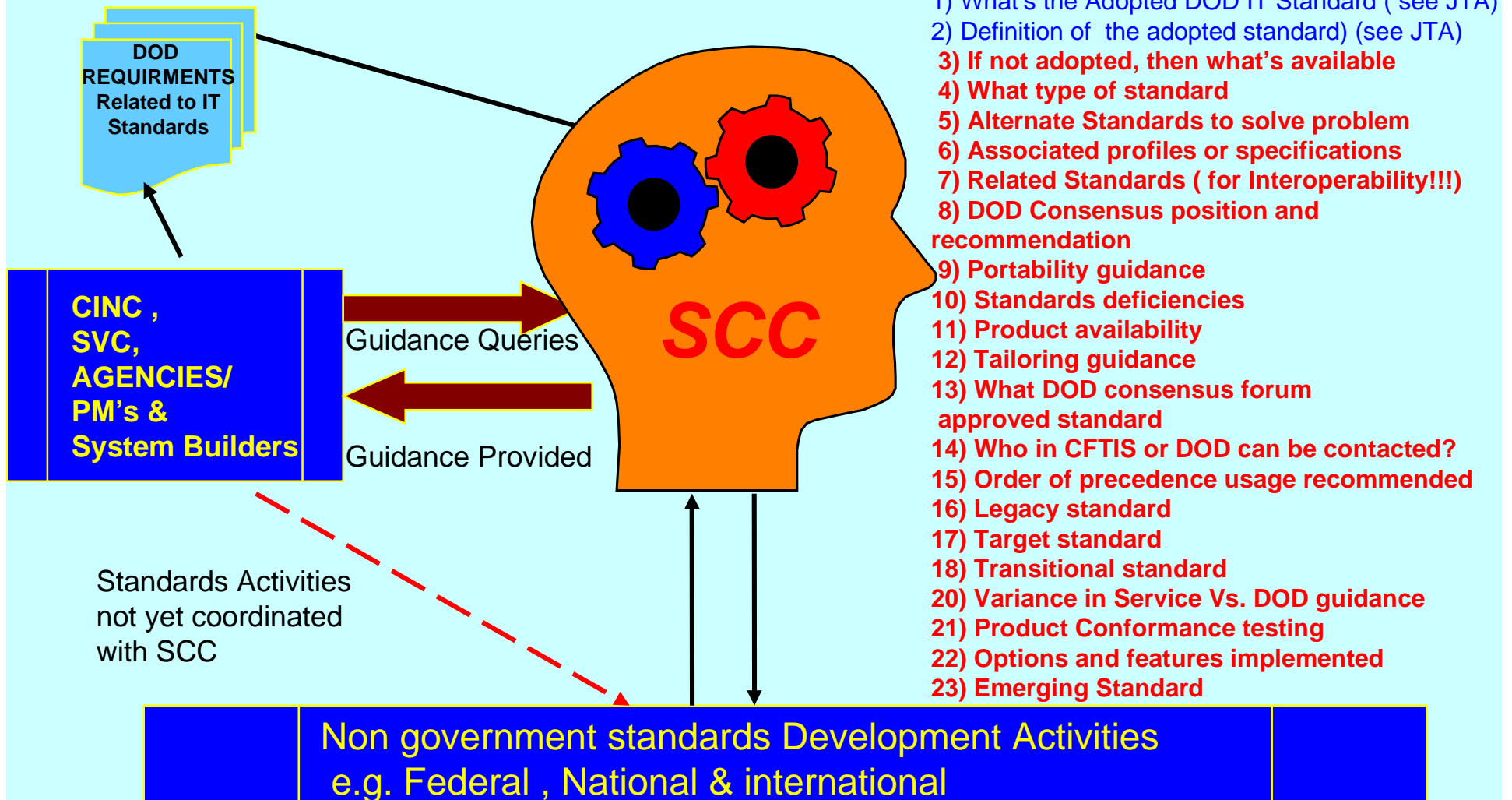


SCC Guidance Logical Model





Guidance Requested of SCC





The Way Ahead

- **How:** By implementing an **SCC Data Set** collection & management method that also can be used to assist system developers & PM's in their early planning process to clearly define :
 - Exactly how big the IT boundaries concerning standards & interoperability really are, **where they are, where they are not, and where they are needed.**
 - What future standard requirements DOD needs to insert into NGS FORUM
 - A methodology to warn DOD of future IT standardization requirements and identify where those requirements are going to come from.



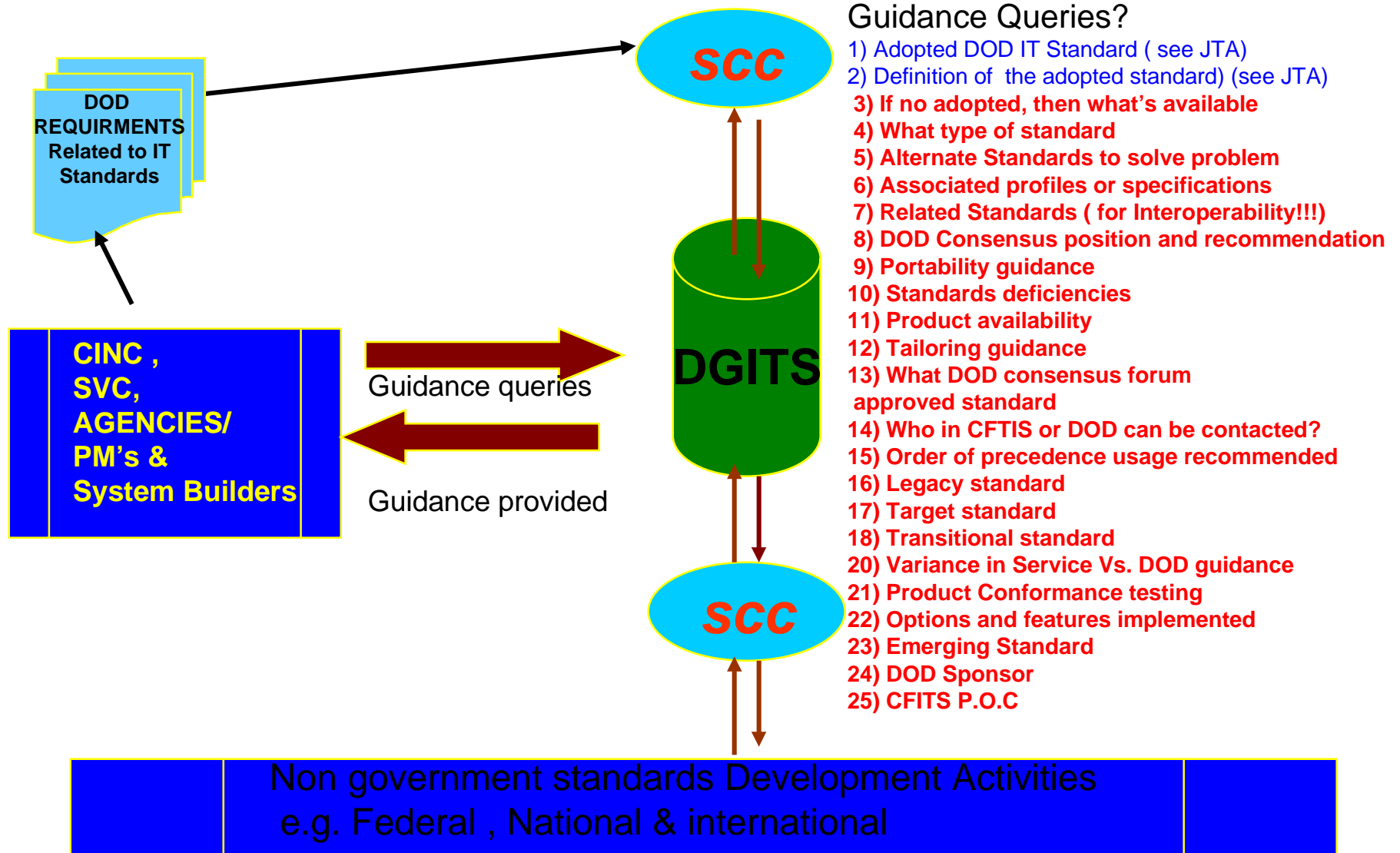
The Way Ahead (cont.)

- What tool: **The Defense Guidance for Information Technology Standards (DGITS)**
- Developed by whom: **The Standards Coordination Committee (SCC)**





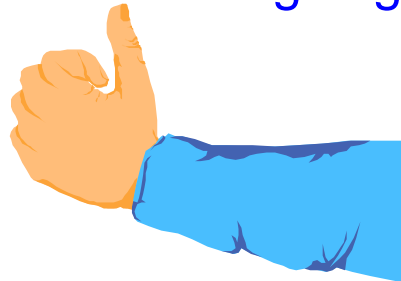
DGITS Inserted into Equation





Assertion

- The SCC tool (DGITS) can be first step to solving the DOD's information and early standards migration **planning** problems by defining -
 - exactly how big the IT standards problem is;
 - exactly how big the interoperability problem really is;
 - the priorities of these problems;
 - what future problems DOD needs to now address;
 - a methodology to warn DOD of future problems; and
 - where those problems are going to come from.





The Guidance Problem

- Astronomers know the universe is expanding. They have tools to measure and understand it
- IT is also expanding, CFITS needs a tool to both understand and deal with it at a meaningful level





Uses of the DGITS

The SCC resource/tool (DGITS) provides guidance in that it:

- **Serves as a DOD SCC and CFITS management tool by mapping IT technology standardization requirements into organized and focused areas**
- **Captures, catalogs and preserves SCC IT standards guidance, needs, decisions, directions.**



Uses of the DGITS (cont.)

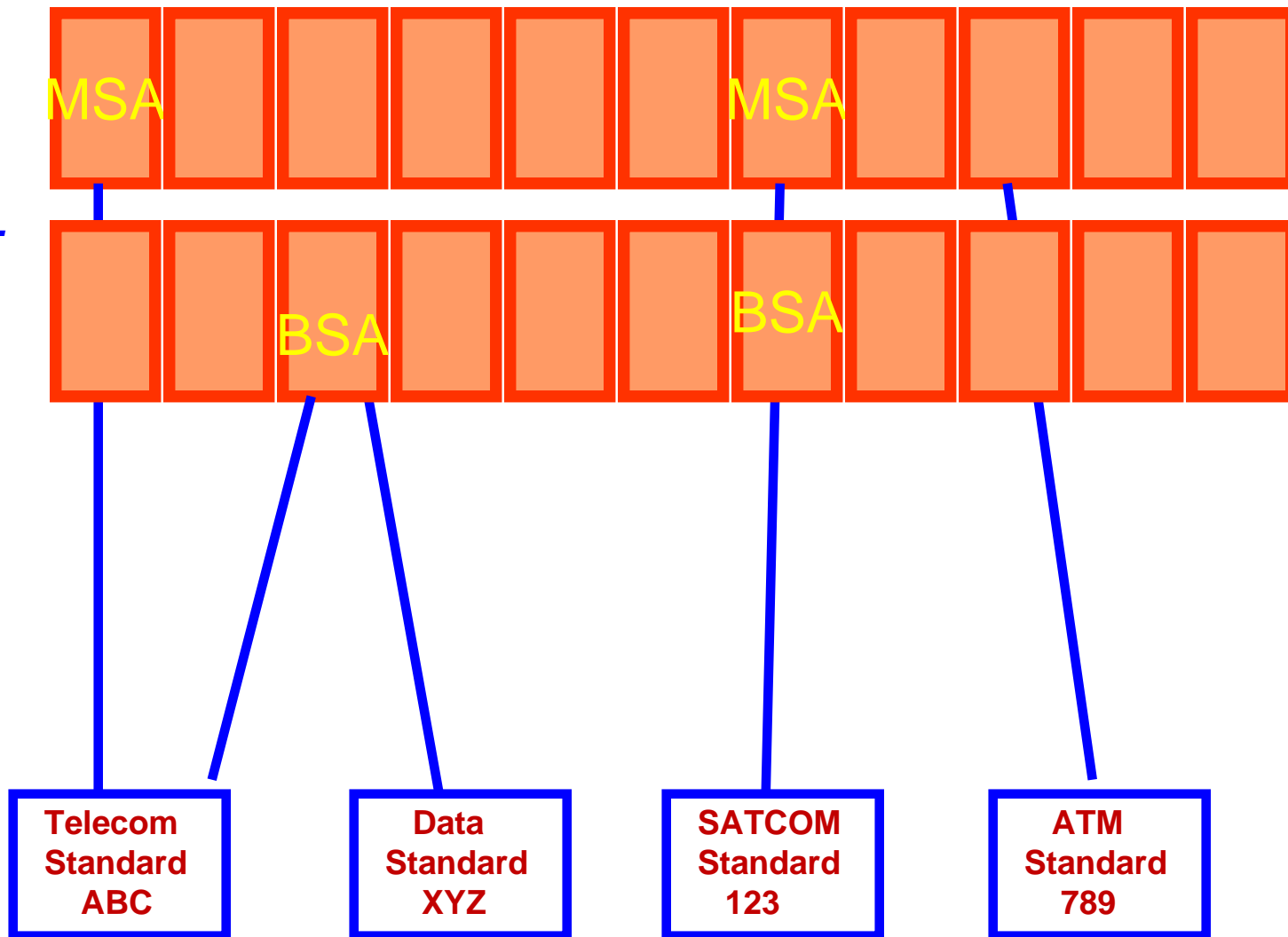
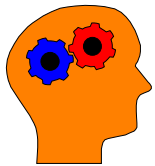
- **Identifies DOD standardization requirements areas and highlights areas where there are currently no IT standards**
- **Serves as a placeholder for specific DOD interoperability components, such as DOD and project specific standards implementations and technical SCC consensus guidance on specific IT standards**



How Is the DGITS Organized

*The IT
standard
problem
definition
continuum.*

*Each box
is a
“NEED”
for some
form of IT
standards
guidance*





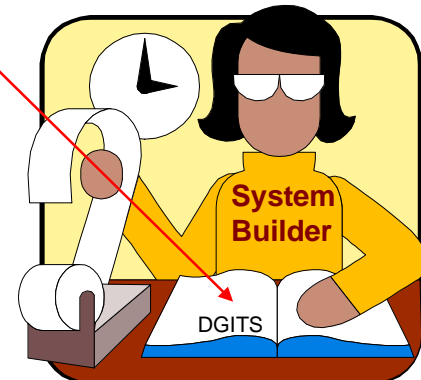
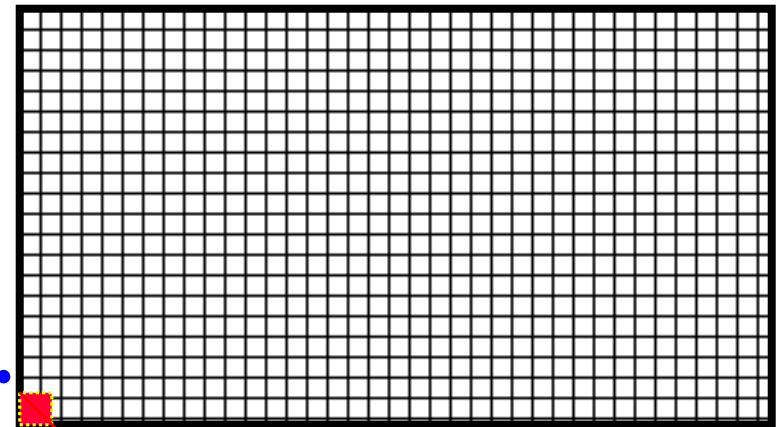
Service Areas

- **Major Service Areas-** Are top-level functionality areas(Data Sets). Examples are operating system, software engineering, system management, data mangement, and etc...
- **Base Service Areas** - are areas that are less generic than MSA's and tend to explicitly state a service requirement. system security, kernel operations, system management services, media handling are some examples of base services that fall under the MSA of operating systems.



Base Service Area Guidance

- 1) Definition of the **Base Service Area**
- 2) Adopted DOD IT Standard for this service
- 3) If no adopted, then what's available
- 4) What type of standard
- 5) Alternate Standards to solve problem
- 6) **Associated profiles or specifications**
- 7) Related Standards (for Interoperability!!!)
- 8) DOD Consensus position and recommendation
- 9) Portability guidance
- 10) Standards deficiencies
- 11) Product availability
- 12) Tailoring guidance
- 13) What DOD consensus forum approved standard
- 14) Who in CFTIS or DOD can be contacted?
- 15) Order of precedence usage recommended
- 16) **Legacy standard**
- 17) **Target standard**
- 18) **Transitional standard**
- 20) Variance in Service Vs. DOD guidance
- 21) Product Conformance testing
- 22) Options and features implemented
- 23) Emerging Standard(s) ...
- 24) DOD Sponsor
- 26) CFITS P.O.C



DGITS = The DNA of Interoperability



Solutions vs. Problems

- If I am a combat General, I need to know where the enemy is located, as well as knowing where he is not.
- We to also know where standards are not as well as where they exist.



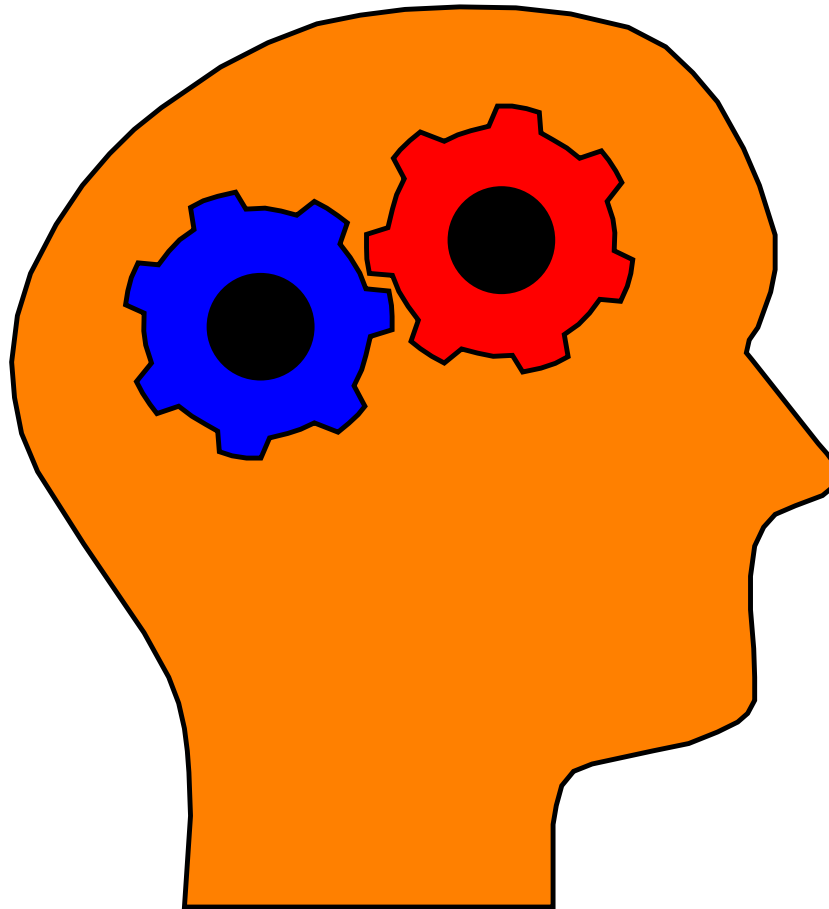
Summary ?

- Identify, Consolidate, and coordinate requirements for information technology standards.
- Advocate DoD requirements in standards bodies to permit DOD adoption of commercial standards versus development of military standards.
- Actively pursue forming partnerships with technology providers to promote timely delivery of products supporting approved standards.
- Develop a framework and provide needed guidance for applying information technology standards by program managers and engineers.

*Approach is a win.. win
The Goal is Achievable....*



Q&A





BACK UP SLIDES



Present DOD Standards Planning Resources

All DOD systems developers and Program managers presently have access to customary early stage Guidance/planning tools that are limited to

- Identifying **mandatory standards** including background descriptions and definitions
- Providing information only description of **“standards”** that are candidates for use



Solutions vs. Problems

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Observation

- **Fact:** Optimum and long celebrated success in the area of open system development is often lost through poor **planning**.
- **End Result:** It appears that various Private and Public organizations (e.g. DoD) end up squandering millions of dollars on elaborate integration and reengineering schemes by jumping head first in to “open systems architecture” based technology without having conducted the proper type planning in the area of standards migration guidance.



Assumption

In order to achieve true interoperability, all DOD systems developers and Program managers, must successfully plan & procure (real world) open information technology systems for open systems architecture environments via the application of a top down and bottom up standards based guidance planning and selection approach.



Capability Missing From Current Planning resources

**DOD /SCC Information Technology (IT)
management guidance tool that is able to:**

- Map IT technology **standardization requirements** into organized and focused areas
- Capture, catalogs preserves and focuses SCC IT standards guidance needs, decisions and directions.



Capability Missing From Current Resources (Cont.)

- Identifies DOD standardization requirements and highlights areas where there are currently no IT standards needed by DOD.
- A placeholder for specific DOD interoperability components, such as DOD and project specific standards implementation specifics such as features, switches and options technical SCC consensus guidance on specific IT standards usage.



Base Service Area Guidance

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- 24) ...

